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TECH CENTER 1600/2900



16:00

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/600,848

DATE: 11/18/2002

TIME: 11:21:47

Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\11182002\1600848.raw

4 <110> APPLICANT: Prieto-Dapena, Maria Pilar  
 5 Almoguera Antolinez, Maria Concepcion  
 6 Jordano Fraga, Juan Batista  
 8 <120> TITLE OF INVENTION: Promoter and Regulator Sequences Ha ds10  
 9 G1: A Gene LEA of Sunflower Expressed Exclusively in Seeds  
 10 from the Maturation Phase  
 13 <130> FILE REFERENCE: 1379-1-013  
 15 <140> CURRENT APPLICATION NUMBER: 09/600,848  
 16 <141> CURRENT FILING DATE: 2000-08-22  
 18 <150> PRIOR APPLICATION NUMBER: P98009122  
 19 <151> PRIOR FILING DATE: 1998-01-23  
 21 <150> PRIOR APPLICATION NUMBER: PCT/ES99/00017  
 22 <151> PRIOR FILING DATE: 1999-01-23  
 24 <160> NUMBER OF SEQ ID NOS: 6  
 26 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 28 <210> SEQ ID NO: 1  
 29 <211> LENGTH: 3617  
 30 <212> TYPE: DNA  
 31 <213> ORGANISM: Helianthus annuus  
 33 <220> FEATURE:  
 34 <221> NAME/KEY: exon  
 35 <222> LOCATION: (1577)...(1721)  
 37 <221> NAME/KEY: exon  
 38 <222> LOCATION: (2746)...(2879)  
 W--> 40 <221> intron  
 41 <222> LOCATION: (1722)...(2745)  
 W--> 43 <221> misc\_feature  
 44 <222> LOCATION: (1448)...(1455)  
 45 <223> OTHER INFORMATION: RY box  
 W--> 47 <221> misc\_feature  
 48 <222> LOCATION: (1512)...(1519)  
 49 <223> OTHER INFORMATION: RY box  
 W--> 51 <221> polyA\_signal  
 52 <222> LOCATION: (3139)...(3144)  
 W--> 54 <221> polyA\_signal  
 55 <222> LOCATION: (3220)...(3225)  
 W--> 57 <400> 1  
 58 gtcgacttct tcatcttcgt ctaagtgttg agtatcgagt acaaattatg cttcttctggat 60  
 59 gtcacgttat atgagaagca tgtgtttaac attatctctt ggatattgag aagggtgaat 120  
 60 ccgataagca aacgggtcaa aagcgttttg ggcttccgta ggatactcgt accgaccgg 180  
 61 tgcaaccatc gtgggacttt gtggaatga aaaaaactgt ggtggatagt tgggtgggg 240  
 62 ttgggtgttg taaaaacccg tttgtggaaa aaatgtgttg ggaagttggg ttgttggaa 300  
 63 atagatccac ctctgtctact ttgcgagccg cgccccctcg cattcgaa cgggtccgaa 360

ENTERED

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64 acttttttttc ttttcatgac ccttggttttg tctatccatg gtatgcatct gaattggtaa 420
65 attgggtgaa aaatggaatg tttacatgg taaaatggaa tggtataatt ataaaggat 480
66 ttaatgtttt tttttaaac ataacgggtc atatagccgt ttaaagcaca acggtcaagt 540
67 cccaacgggt caaatcaagc caaacaatca agtcccgcat gtggcatata tccccgtgt 600
68 tgaaccagggt ccggcccaag cctaagaatt ttgagggttg gggttttaggc ctctaaatca 660
69 atagggactc taacttaaaa aaattatata tgatatttag gttaagttga atttatcttt 720
70 atatgtacaa aaaaatata ataatccaa aataaaaaat aaaaaataa attaacttcg 780
71 ccaacaataa atcttttggt atgttttgcc ttttggtttt ttaaaaaaag gctcaaattt 840
72 ttaatttgct ttaggccacc aaaatgggtt aaccgacctt gctttgaacc ataccacac 900
73 gacaaattag gggatcacga gtgggggtcg gcaaaccaat gccaataaac tttgcgac 960
74 aaagtgtcac catttcgggtg attgtttgcc gatgcggcga ggaggaagaa gagagaggag 1020
75 ggtagtgtga ggtgggttcc attccaatct caactaatca catttttttc ctttttttta 1080
76 ttaaaaaagt ttaccacttc actaaatgtc taaaccattg ccaacacttt tcaccaagt 1140
77 ttaaacattt ttctctgatt gacgtggcac actctcattg gttgattttt tagtttgcca 1200
78 ctctcaattg ttaaccact ccttacaccc tcttatgtga gcggtggtgt tccccagcg 1260
79 acaaaagggc ttaccgcaac cccttaccgc ttccaacctt tacaccctta tcttctgcct 1320
80 atactgcatg tcaactctatt gcagactatc tgagatagct acaacctaac gacttaagg 1380
81 gaggacacgt gtatctccaa aaccacattc gtcacctta ccaccacgtc atcataccac 1440
82 gtgccaacat gcatgctagt atcttctcta ctatacacat acttatgtac tatatatatt 1500
83 caccaaaatt acatgcatgt tagcaccctc aattgtacaa cacaacttaa caacttaagt 1560
84 taaaagagtg aacaaaatgg catcacaaca gggacaacaa acacgcaaaa ttccggaaca 1620
85 ggagaagaag gatctcgacc aacgagcagc taaaggcgag accgttggtc cggttggtac 1680
86 tcgtggcaaa tctcttgagg ctcaagaacg tcttgctgaa ggtatatgtt tatttagtta 1740
87 aatttacata cgtattgggg atggccgttt gatatttagc aaacggcaac ccgaatat 1800
88 aggggcccat gatttgacat acatatattga ataagattaa ggggcctaga ggtgtacaa 1860
89 tccctttaa aaagggcccg gttttaaccg gacggaaatg gtttctaaaa tagcgggtcg 1920
90 gtttttaact ggttttacat ggtgggcagt cgaactggta ctagtagatt cggtaaagcga 1980
91 ttggggacaa aaaacgtttt ttaactgggt tttgaagatc agtaatacta accggtatgc 2040
92 aaactgccag ttcgggttga aactggtttc ttttctttt tcaaaaaaja aacggtatgg 2100
93 gacaaaaaac gtttttttaa actggttttg aagatcaata atactaacg gtatgcaaac 2160
94 cgccagttcg gttcgggtta aaactggtt ttttttttt tttaaagaag cggtaaaaaa 2220
95 accggtttcg gtcataaacc gattttttta acacctacaa gggggccatg atttaaaaaa 2280
96 aaagcggtta aaaaaaacg gtttcggtca taaaccgatt tttttaacac ctacaagggg 2340
97 gccatgattt aagatgaagt atcggagctc gtgatttaac ataaagtacc tcaaacggcc 2400
98 gcagtttgat tcaagcgcaa acccgctcgt ctacgactag tggcgaagct tgagatctcc 2460
99 gattgggggt cgaaaacgtt tatacccaaa aatttctata gaacgggggt cgaaaacgtg 2520
100 tatactcaaa aaattctata cgaaagctac atacctgagc gaaaagtctg ggtctggcac 2580
101 acaccccttc cccctcttc taacctacgc ccctagctat gacggtgtgg gtagagtcca 2640
102 ccctttcagt agcttttttg cgaattcaca ttagtattt ttatagttgt agtgatgcat 2700
103 aataatatat gcatgtactt aattttgtgt ttggtggtgg tgaaggcgag agcaaggagg 2760
104 gacaaacgag gaaagaccag ctgggaactg aagggtacaa ggagatgggg aaaaaggcg 2820
105 gtcagaccac cgggtgacaag tcggctgggt agcgagagga ggaggaggag gaggactaga 2880
106 tagtcaatag tgggtgtgat gtgtttgcat gtacgatgat gttaatttcc atgttttata 2940
107 tatgtgtatg tacctgtagt atggttttag tcgtgtttca tgtttgttg gtcgttttgg 3000
108 tatctctttt agtgcattga cgactagtag tcctatgatg atgtgatgtg atttgcatat 3060
109 gttgatataa tggtaagtac aagttttatc tatctatctt tcttttcgac tagagtttac 3120
110 aaaaatgtga cggatgacaa taataagcaa cttatatatt tccatacaag cttattatgt 3180
111 gactattgac caataaggca ataagtaagt gagccaataa ataatagccg gttatgctgt 3240
112 aacaactatt gtgacaacaa tattctttta ccgaataaat aaaaataagt aagtattagg 3300
```

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```
113 agccaataaaa taaataaccg gtttaaatgag aaaagcacca aaatagcctc tttgatcaat 3360
114 agaattatga aaatagtctc gactcgacct ttttgaataa cccttcacatc cctgtgttg 3420
115 gcgatcttcg cccggacgac acgtgtctag tgaacatgcc tattctgatt agtgggtgcac 3480
116 aaatcggggtt tttttttaaa aaacgggttt cgggtaggat cgggtttttt taaaaccggg 3540
117 tcgggtccgg gtcgggtttt ctaccaaaaa tgtataccct gtataccggg ttcgggtcgg 3600
118 gttttataaa acccggg 3617
120 <210> SEQ ID NO: 2
121 <211> LENGTH: 24
122 <212> TYPE: DNA
123 <213> ORGANISM: Artificial Sequence
125 <220> FEATURE:
126 <223> OTHER INFORMATION: Synthetic Primer
128 <400> SEQUENCE: 2
129 ctctgttcc ggaattttgc gtgt 24
131 <210> SEQ ID NO: 3
132 <211> LENGTH: 22
133 <212> TYPE: DNA
134 <213> ORGANISM: Artificial Sequence
136 <220> FEATURE:
137 <223> OTHER INFORMATION: Synthetic Primer
139 <400> SEQUENCE: 3
140 acgcgctttc ccaccaacgc tg 22
142 <210> SEQ ID NO: 4
143 <211> LENGTH: 28
144 <212> TYPE: DNA
145 <213> ORGANISM: Artificial Sequence
147 <220> FEATURE:
148 <223> OTHER INFORMATION: Synthetic Primer
150 <400> SEQUENCE: 4
151 gagtgaacag aattccatca caacaggg 28
153 <210> SEQ ID NO: 5
154 <211> LENGTH: 17
155 <212> TYPE: DNA
156 <213> ORGANISM: Artificial Sequence
158 <220> FEATURE:
159 <223> OTHER INFORMATION: Synthetic Primer
161 <400> SEQUENCE: 5
162 attaaccctc actaaag 17
164 <210> SEQ ID NO: 6
165 <211> LENGTH: 17
166 <212> TYPE: DNA
167 <213> ORGANISM: Artificial Sequence
169 <220> FEATURE:
170 <223> OTHER INFORMATION: Synthetic Primer
172 <400> SEQUENCE: 6
173 aatacgactc actatag 17
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## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/600,848

DATE: 11/18/2002

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Input Set : A:\Seqlist.txt

Output Set: N:\CRF4\11182002\I600848.raw

L:40 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:43 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:47 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:51 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:54 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1  
L:57 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1